

Watershed Evaluations

03060106-030

(Savannah River /Stevens Creek Reservoir)

General Description

Watershed 03060106-030 is located in Edgefield and Aiken Counties and consists primarily of the *Savannah River* and its tributaries as it flows through *Stevens Creek Reservoir*. The watershed occupies 13,648 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Fuquay-Troup-Cataula-Cecil- series. The erodibility of the soil (K) averages 0.20, and the slope of the terrain averages 7%, with a range of 0-15%. Land use/land cover in the watershed includes: 82.5% forested land, 8.7% water, 5.5% barren land, 2.7% forested wetland, 0.4% agricultural land, and 0.2% urban land.

The section of the Savannah River impounded between the Thurmond Dam and the Stevens Creek Dam forms the Stevens Creek Reservoir, which accepts drainage from its upper reaches and from Nixon Branch and Deep Step Creek. An asterisk connotes a stream entering from the Georgia side of the river. Lloyd Creek* enters the river next, followed by Kiokee Creek*, Little Kiokee Creek*, Little River*, Mauldin Branch, Deep Step Branch, Bussy Creek, and the Stevens Creek watershed. There are a total of 34.7 stream miles within the South Carolina portion of the watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
SV-294	P	FW	STEVENS CREEK RES. HEADWATERS AT CLARKS HILL DAM BOAT RAMP

Stevens Creek Reservoir (SV-294) – Near the headwaters of Stevens Creek Reservoir, aquatic life uses are partially supported due to dissolved oxygen and pH excursions. In addition, there is a decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total nitrogen concentration suggest improving conditions for these parameters. In sediment, P,P' DDT and its metabolite P,P' DDE were detected in the 1997 sample. Although the use of DDT was banned in 1973, it is very persistent in the environment. Recreational uses are fully supported; however, there is a significant increasing trend in fecal coliform bacteria concentrations.

A fish consumption advisory has been issued by the Department for mercury and includes the Savannah River within this watershed (see advisory p.107).

NPDES Program

Active NPDES Facilities

RECEIVING STREAM

FACILITY NAME

PERMITTED FLOW @ PIPE (MGD)

NPDES#

TYPE

COMMENT

SAVANNAH RIVER

US ARMY CORPS./LAKE THURMOND

PIPE #: 001 FLOW: M/R

SC0047317

MINOR INDUSTRIAL

Growth Potential

There is a low potential for growth in this watershed, which contains a portion of the Town of Clarks Hill. The majority of the watershed resides within the Sumter National Forest and would tend to limit growth.